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FIG. 1A

FIG. 1A

NOGO -R2	NOGO -R2
NOGO -R3	NOGO -R3
NOGO -R1	NOGO -R1
Consensus	Consensus

1	~~~~~MLPG. LRRLLQAPAS	AC...LLLML	LA..LPLAAP	SCPMLCTCYS
	~~~~~MSWQSGTTVT	GCCVELLILL	LAGEPLGG.	GCPRDCVCYP
	~~~~~MKRAS	ACGSRLLAW	LWLNQAWQVA	PCPGACVCYN
	~~~~~	-----S	-----LL	-----L
	~~~~~	-----	-----	-----
50	-----	-----	-----	100
51	SP. PTVSCQA	NNFSSVPLSL	PPSTORLFLQ	NNLIRTLRPG
	AP. MTVSCQA	HNFAAIPEGI	PEDSERIFLQ	NNRITFLQQG
	EPKVVTSCPQ	QGLQAVPGI	PAASQRIFLH	GNRISHVPA
	-P--T-SC--	-P--P--	-R-FL-	-N-I-----F-

101	LWLFSNNLST	IYPGTFRHHLQ	ALEELDLGDN	RHLRSLEPDT	FQGLERLQSL
	LWIYSNNTF	IAPNTTEGFW	HIEELDLGDN	RQLRTLAPET	FQGLVKLHAL
	LWLHSNVLAR	IDAAAFTGLA	LLEQDLSDN	AQLRSVDPAT	FHGGLRLHTL
	LW-SN---	I---	-LE-LDL-DN	--LR---P-T	F-GL--L--L

151 HL YR CQL SSS PGN IFR GLVS LQ YL QENS LL HL QDD LFA DL AN S H L F L  
 152 Y L Y K C G L S A L P A G I F G G L H S L Q Y L Q D N H I E Y L Q D D F V D L V N L S H L F L  
 153 H L D R C G L Q E L G P G L F R G L A A L Q Y L Q D N A L Q A L P D D T R D L G N L T H L F L  
 154 - L - - C - L - - L - - F - G L - - L Q Y L Q - N - - - L - D D - F - D L - N L - H L F L  
 155 200

NOCO-R2  
NOCO-R3  
NOCO-R1  
Consensus

201	HGNRLRLLTE	HVFRLGLSLD	RLLHGNRLQ	GVRAAFRGL	SRLTILYLFN
	HGNKLWSLGQ	GIFRGLVNLD	RLLHENQLQ	WVHKAFHDL	HRLTTLFLFN
	HGNRISSVPE	RAFRGLHSLD	RLLHQNRVA	HVPHAFRDL	GRLMTLYLFA
	HGN-----	--FRGL--LD	RLLH-N---	-VH--AF--L	-RL--L-L-F-

NOGO-R2  
NOGO-R3  
NOGO-R1  
Consensus

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FIG. 1B

Fig. 1B

Applicant : Strittmatter, S., et al.  
 Application No. : Not yet assigned  
 For : NOC-RECEPTOR HOMOLOGS  
 Attorney : Eli Lilly and Co. Reg. No. 43,117, Tel: (212) 596-9000

Docket No.: A116  
 Filed: Concurrently herewith

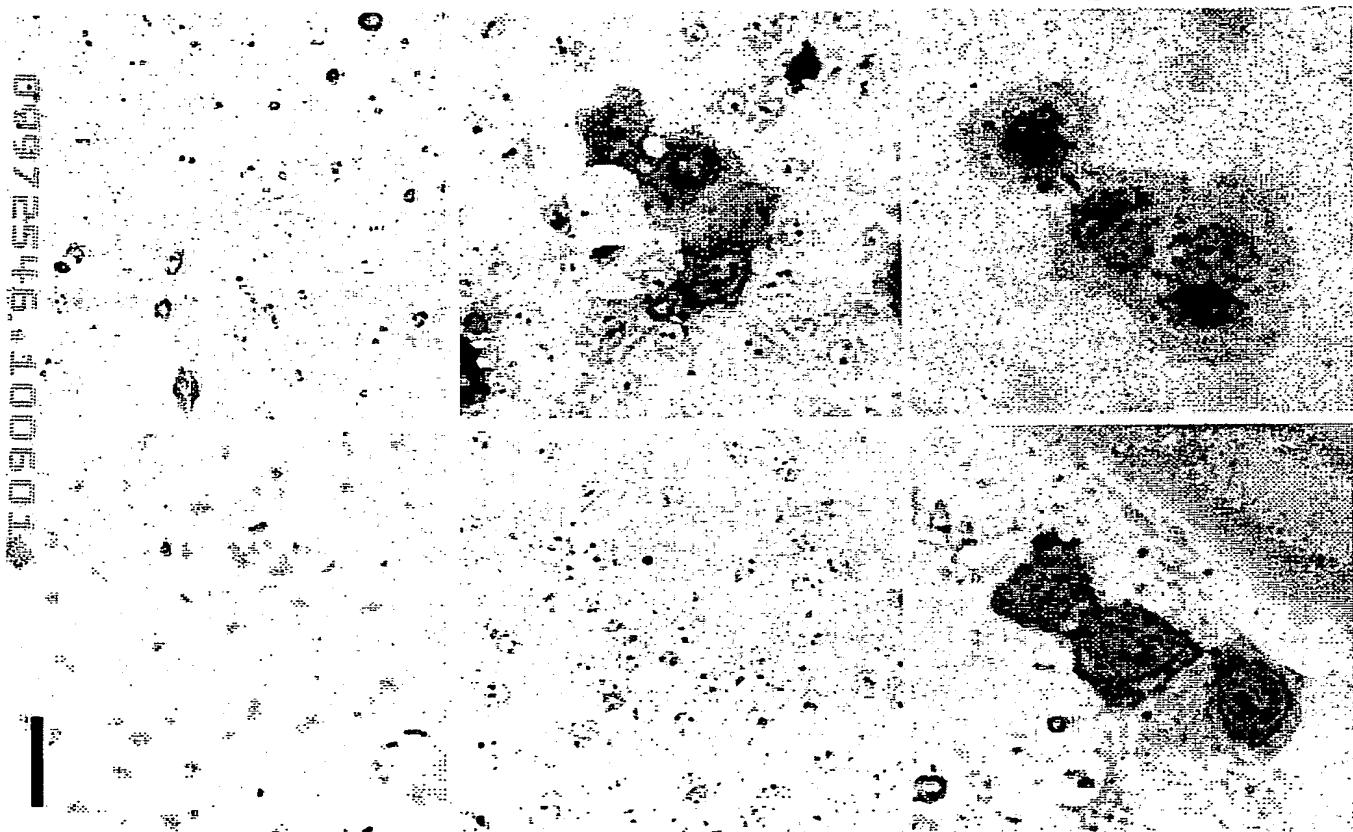
251 NSLASLPGEA LADLPSLEFL RLNANPWACD CRARPLWAFF QRARVSSSDV NSLTELQDC LAPLVALEFL RUNGNAWDCC CRARSLWEWL RRFRGSSSAV NNLNALPTEA LAPLRLAQYL RLNDNPWVCD CRARPLWAFL QKFRGSSSEV N-L--L--- LA-L--L--L RLN-N-W-C- CRAR-LW-W- -R-SSS-V	300 350 301 TCATPPPERQG RDRLRALREAD FQAC . . P. P AAPTRPGCSRA . . . . PCATPPELRQG QDLKLLRVED FRNC . . TGP VSPHQIKSHT PCSLPQRLAG RDLKRLAAND LQGCCAVATGP YHPIWTGRAT DEEPLGLPKC -C--P---G -DL--L--D -C---P -P-----	400 450 351 RGN . . SSSNH.LY G.VAE . . AGAPPADPS . . TLYRDLPA LTTSdraa . . RKEHHPSH G.ASRDKGHP HGHPPGSRSG YKKAGKNCTS CQPDAADKAS VLEPGRPA.SA GNALKGRVPP GDSPPGNGSC PRHI.NDSPF -----G-----PP---S-----R-----	401 491 401 EDSRGR . . QGGDAPTE.D DYWGYY . . . . . GGED QRGEQMCPGA HRNRNQISKV SSGKELTELQ DYAPDYQHKF SFDIMPTARP KRKGKCARRT GTLPGSAEPP LTAVRPEGSE P . PGFPTSG PRRPGCSRK NRTRSHCRLG -----G-----PP---S-----R-----	NOGO-R2 NOGO-R3 NOGO-R1 Consensus ----- NOGO-R2 NOGO-R3 NOGO-R1 Consensus ----- NOGO-R2 NOGO-R3 NOGO-R1 Consensus -----
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Applicant : Strittmatter, S., et al.  
Application No. : Not yet assigned  
For : NOG-1 AND/OR HOMOLOGS  
Attorney : Elinor [REDACTED] Reg. No. 43,117, Tel: (212) 596-9000

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Sheet [REDACTED]

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FIG. 2

Control      NgR 3      NgR 1



anti-myc      AP-Nogo

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3  
FIG.

50		50									
Human	NOGO-R1	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Murine	NOGO-R1	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Murine	NOGO-R3	MSWQSGTTVT	QSPVQAAQVS	GCCVELLLL	LAGELPLGGG	CPRDCVCYPA	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Human	NOGO-R3	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Human	NOGO-R2	~~~~~	~~~~~	~~~~~	~~~~~	MLPGLRRLLQ	APASACLLM	LLALPLAAPS	CPLMLCTCYSS	CP--C-CY--	CP--C-CY--
Consensus		~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
51		51									
Human	NOGO-R1	PKVTTSCPQQ	GLQAVPVGIP	AASQRIFLHG	NRISHVPAAS	FRACRNLTIL	100				
Murine	NOGO-R1	PKVTTSCPQQ	GLQAVPTGIP	ASSQRIFLHG	NRISHVPAAS	FQSCRNLTIL					
Murine	NOGO-R3	P.MTVSCQAH	NFAAIPECGIP	EDSERIFLQN	NRITFLQQGH	FSP. .AMVTL					
Human	NOGO-R3	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~					
Human	NOGO-R2	P.PTVSCQAN	NFSSVPLSLP	PSTQRLFLQN	NRIGLLQPGH	FSP. .AMVTL					
Consensus		P--T-SC--	----P--P	----P--P	----R-FL--	N-I-----	F-----	-----	-----	-----	-----
51		51									
Human	NOGO-R1	WLHSNVLARI	DAAFTGLAF	LEQDLDSDNA	QLRSVDPATF	HGLGLRLHTLH	150				
Murine	NOGO-R1	WLHSNVLARI	DAAFTGLTL	LEQDLDSDNA	QLHVVDPTTF	HGLGLHLHTLH					
Murine	NOGO-R3	WIYSNNITFI	APNTFFEGFVH	LEELDLGDNR	QLRTLAPETF	QGLVKLHALY					
Human	NOGO-R3	WIYSNNITYI	HPSTEEGFVH	LEELDLGDNR	QLRTLAPETF	QGLVKLHALY					
Human	NOGO-R2	WLFNSNNLSTI	YPGTFRHLQA	LEELDLGDNR	HLRSLEPDTF	QGLERLQSLH					
Consensus		W-SN---I	----F----	LE-LDL-DN-	-L---P-TF	-GL--L--L-					
101		101									
Human	NOGO-R1	WLHSNVLARI	WLNLSNLSTI	LEQDLDSDNA	QLRSVDPATF	HGLGLRLHTLH	150				
Murine	NOGO-R1	WLHSNVLARI	WLNLSNLSTI	LEQDLDSDNA	QLRSVDPATF	HGLGLRLHTLH					
Murine	NOGO-R3	WIYSNNITFI	WLNLSNLSTI	LEQDLDSDNA	QLRSVDPATF	HGLGLRLHTLH					
Human	NOGO-R3	WIYSNNITYI	WLNLSNLSTI	LEQDLDSDNA	QLRSVDPATF	HGLGLRLHTLH					
Human	NOGO-R2	WLFNSNNLSTI	YPGTFRHLQA	LEQDLDSDNA	QLRSVDPATF	HGLGLRLHTLH					
Consensus		W-SN---I	----F----	LE-LDL-DN-	-L---P-TF	-GL--L--L-					
151		151									
Human	NOGO-R1	LDRCGLOELG	PGLFRGLLAI	QYLYLQDNAL	QALPDDTFRD	LGNLTHLFLH	200				
Murine	NOGO-R1	LDRCGLOELG	PGLFRGLLAI	QYLYLQDNAL	QALPDDTFRD	LGNLTHLFLH					
Murine	NOGO-R3	LYKCGLSALP	AGIFGGIHL	QYLYLQDNHI	EYLQDDIFVVD	LYNLISHLFLH					
Human	NOGO-R3	LYKCGLSALP	AGVFGGIHL	QYLYLQDNHI	EYLQDDIFVVD	LYNLISHLFLH					
Human	NOGO-R2	LYRCQSLP	GNIFRGGLVSL	QYLYLQENSL	LHILQDDLFAD	LANLISHLFLH					
Consensus		L--C-L--L-	--F-GL--L	QYLYLQ--N--	--L-D--F-D	L-NL-HLFLH					

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FIG. 3, cont.

201	LRR 6	LRR 7	250
Human NOGO-R1	GNRISSSVPER AFRGLHSILDR	LLHQNRVAH VPHAFRDIG	RLMTLYLFAN
Murine NOGO-R1	GNRIPSVPEH AFRGLHSILDR	LLHQNHVAR VPHAFRDIG	RLMTLYLFAN
Murine NOGO-R3	GNKLWLSLGQG IFRGLVNLDR	LLHENQLQW VHHKAFHDLH	RLTTLFLFNN
Human NOGO-R3	GNKLWLSLGPG TFRGLVNLDR	LLHENQLQW VHHKAFHDLR	RLTTLFLFNN
Human NOGO-R2	GNRILRLTTEH VFRGLGSGLDR	LLHGPNRLQG VHRAAFRGILS	RLTILYLFNN
Consensus	GN-----FRGL-LDR	LLH-N-----VH--AF--L-	RL--L-LF-N-
251	LRR 8	LRR CT	300
Human NOGO-R1	NLSALPTEAL APLRALQYLR	LNDNPWVCDC RARPLWAWLQ	KFRGSSSEVP
Murine NOGO-R1	NLSMPLPAEVL MPLRSLQYLR	LNDNPWVCDC RARPLWAWLQ	KFRGSSSEVP
Murine NOGO-R3	SLTELQGDCL APLVALEFLR	LNGNAWDCCG RARSLWEWLR	RFRGSSSAVP
Human NOGO-R3	SLSELQGECL APLGALEFLR	LNGNPWDCCG RARSLWEWLR	RFRGSSSAVP
Human NOGO-R2	SLASLPGEAL ADLPSLEFLR	LNAANPWACDC RARPLWAWFQ	RARVSSSDVT
Consensus	-L--L---L--L--LR	LN-N-W-C-C RAR-LW-W--	--R-SSS-V-
301			350
Human NOGO-R1	CSLPQRLAGR DLKRLAANDL	QGCCAVATGPPY	HPIWTGRATD
Murine NOGO-R1	CNLPQLADR DLKRLAASDL	EGCAVASGPF	RPIQTSQLD
Murine NOGO-R3	CATPELRQGQ DLKLLRVEDF	RNCCTGPVSP.	HQIKSHTLTT
Human NOGO-R3	CVSPGLRHQQ DLKLLRAEDF	RNCCTGPASP.	SDRAARKEHH
Human NOGO-R2	CATPPQRGR DLRALREADF	QACP. PAAP.	TRPGSRA. . .
Consensus	C--P-----DL--L--D-	-C-----P-----	RGNSSSNH
351			400
Human NOGO-R1	QPDAAADKASV LEPGRPASAG	NALKGRVPPG	DSPPGNGSGP
Murine NOGO-R1	QPDAAADKASV LEPGRPASAG	NALKGRVPPG	DTPPGNGSGP
Murine NOGO-R3	PSHGASRDKG HPHGHPPGSR	SGYK. . . . .	KAGKNCTSH RNRNQISKVS
Human NOGO-R3	SPHGPTRSKG HPH. . . GPR	PGHR. . . . .	KPGKNCTNP RNRNQISKAG
Human NOGO-R2	.LYGVA .EAG AP. . . PADPS	TLYR. . . . .	DLPA. . . . .
Consensus	-----	-----	EDSRGR

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FIG. 3, cont.

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Human NOGO-R1	LPGSAEPPLT	AVRPEGSEPP	GF...	PTSGP	RRPGCSRKN	RTRSHCRLGQ
Murine NOGO-R1	LPSSAEPPLT	ALRPGGSEPP	GL...	PTTGP	RRPGCSRKN	RTRSHCRLGQ
Murine NOGO-R3	SGKELTELQ	DYAPDQHKF	SFDIMPTARP	KRKKGKCARRT	PIRAPSGVQQ	
Human NOGO-R3	AGKQAPELP	DYAPDQHKF	SFDIMPTARP	KRKKGKCARRT	PIRAPSGVQQ	
Human NOGO-R2	QGGDADTED	DYWGYY...	GGED	QRGEQMCPPGA	ACQAPPD...	
Consensus	---	---	-R-----			

450

Human NOGO-R1	AGGGGGTGD	SEGGALPSI	TCSLITPLGLA	LVLWTVLGPC	
Murine NOGO-R1	AGSGASGTGD	AEGSGALPAL	ACSLAPLGLA	LVLWTVLGPC	
Murine NOGO-R3	...	...	ASSGTALG	APLFLAWILGL	AVTLR~~~~~
Human NOGO-R3	...	...	ASSASSLG	ASLLIAWTLGL	AVTLR~~~~~
Human NOGO-R2	...	...	SRGPALSA	GLPS	PLLCL~LLLVPHL~
Consensus	---	---	---	---	---

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Putative GPI Signals: 490

Human NOGO-R1	AGGGGGTGD	SEGGALPSI	TCSLITPLGLA	LVLWTVLGPC	
Murine NOGO-R1	AGSGASGTGD	AEGSGALPAL	ACSLAPLGLA	LVLWTVLGPC	
Murine NOGO-R3	...	...	ASSGTALG	APLFLAWILGL	AVTLR~~~~~
Human NOGO-R3	...	...	ASSASSLG	ASLLIAWTLGL	AVTLR~~~~~
Human NOGO-R2	...	...	SRGPALSA	GLPS	PLLCL~LLLVPHL~
Consensus	---	---	---	---	---